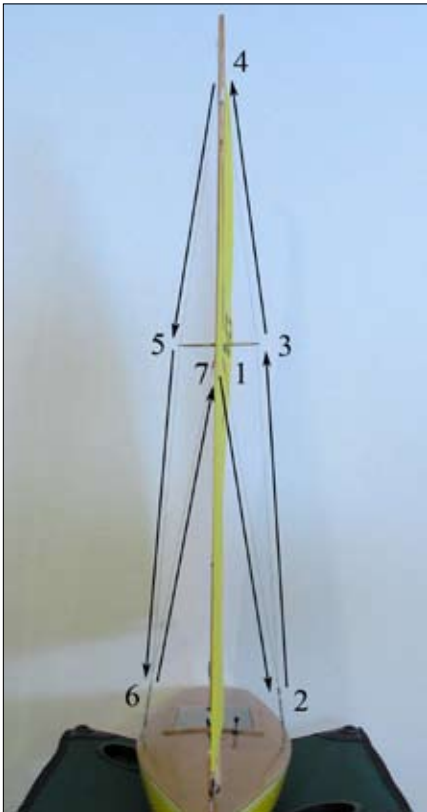


# Lowers for Your V-32

by John Davis

**L**owers are shrouds attached to a mast to support its midsection from swaying side to side in a stiff breeze. Your V-32 comes stock with Upper shrouds to support the mast, but not Lower shrouds. This is a quick explanation of how to add Lowers to your V-32 rig. We will use one continuous wire cable (routed from points 1 to 7) to build the Uppers and Lowers for V-32 mast support shown below.

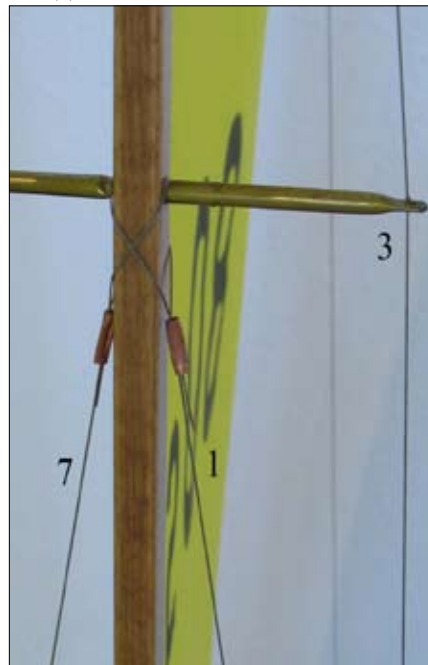


Start with a readily available, \$12, model airplane hardware kit made by Sullivan Products, and their part number 520. If your local hobby shop does not have one, they can easily order it. As you can see from the photo below, the kit includes parts to make two lightweight turnbuckles, the wire cable, and



four of the five “swedges” (or “crimps”) that you will need. The extra swedging sleeve will have to come from your local sporting goods fishing department.

This is how we are going to rig your V-32. First we will rig the boat with the original shrouds in place while we add the new shrouds. This will position the mast so we have minimum need for adjustment of the new shrouds. (Note it is too confusing show the original rig being held in place while the new shrouds are being added.) We will use one continuous run of cable. (1) You start with a loop around the starboard spreaders to run down the port side, and we securely crimp the swedge holding that loop in place. In the photo below you can see the (1) Port Lower Shroud, crossing under the (7) Starboard Lower Shroud.



(2) You then run the cable down to the deck turnbuckle shown in the next photo. Slip the swedging sleeve in place as you loop the wire through the top hole of your new turnbuckle, but do not crimp it until you have the cable finally positioned at the end of this process. Take out any slack, but do not tighten as you make each turn of the cable. Notice the two small nuts on the turnbuckle shaft. The top one is glued to the shaft so you can turn the shaft with your fingers to loosen or tighten the shrouds. The bottom nut is for locking in your final position. The turnbuckle should



be turned full-in so the mast can be made vertical by letting out either side. The shrouds are still tensioned using the screw in the base of the mast.

(3) Feed the cable through the hole in the Port Spreader and slip a swedging sleeve in place while you (4) feed the cable through the top eyelet in the mast in the same manner as the original. (5) Now simply go down through the Starboard Spreader, the (6) Starboard turnbuckle, and end up wrapping around the Port Spreader and (7) crimping the cable on the Starboard side.

Measure mast top and spreaders for vertical before you crimp the top and turnbuckle swedges. Remove the old rig wire and save it for luff wire.

